



**SAFETY DATA SHEET**

according to Regulation (EU) No. 1907/2006

112000017239

Version 2.3

Revision Date 07.07.2011

Print Date 10.02.2015

---

**1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

**Product identifier**

Trade name : **ARCOL POLYOL 5613**

**Relevant identified uses of the substance or mixture and uses advised against**

Use : Polyol components for the production of polyurethanes

**Details of the supplier of the safety data sheet:**

Bayer MaterialScience Limited  
43/F Hopewell Centre  
183 Queen's Road East, Wanchai, Hon

Tel: +852 28955888

Fax: +852 25768862

e-mail: productsafety@bayerbms.com

TRANSPORTATION EMERGENCY:

CALL CHEMTREC: 800-968-793 (Toll Free)

Information Phone: +852 93161380, +852 96807276, +852 61177123

---

**2. HAZARDS IDENTIFICATION**

**Classification of the substance or mixture**

**GHS Classification:**

Not a dangerous substance according to GHS.

**GHS-Labeling**

Not a dangerous substance according to GHS.

---

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

**Type of product:** Mixture

polyether polyol

No dangerous ingredients according to Regulation (EC) No. 1907/2006



## SAFETY DATA SHEET

112000017239

according to Regulation (EU) No. 1907/2006

**ARCOL POLYOL 5613**

Version 2.3

Revision Date 07.07.2011

Print Date 10.02.2015

---

**4. FIRST AID MEASURES****Description of first aid measures****General advice:** Remove contaminated clothing.**If inhaled:** Take the person into the fresh air and keep him warm, let him rest; if there is difficulty in breathing, medical advice is required.**In case of skin contact:** In case of skin contact wash affected areas thoroughly with soap and plenty of water. Consult a doctor in the event of a skin reaction.**In case of eye contact:** Hold the eyes open and rinse with preferably lukewarm water for a sufficiently long period of time (at least 10 minutes). Contact an ophthalmologist.**If swallowed:** DO NOT induce the patient to vomit, medical advice is required.

---

**5. Fire-fighting measures****Suitable extinguishing media:** Carbon dioxide (CO<sub>2</sub>), Foam, extinguishing powder, in cases of larger fires, water spray should be used.**Unsuitable extinguishing media:** High volume water jet**Special hazards arising from the substance or mixture:**

Burning releases carbon monoxide, carbon dioxide, oxides of nitrogen and traces of hydrogen cyanide. In the event of fire and/or explosion do not breathe fumes.

**Advice for fire-fighters:**

Firemen must wear self-contained breathing apparatus.

Do not allow contaminated extinguishing water to enter the soil, ground-water or surface waters.

---

**6. ACCIDENTAL RELEASE MEASURES****Personal precautions, protective equipment and emergency procedures:** Put on protective equipment (see section 8). Ensure adequate ventilation/exhaust extraction. Keep unauthorized persons away.**Environment related measures:** Do not allow to escape into waterways, wastewater or soil.**Methods and material for containment and cleaning up:** Take up with absorbent for chemicals or, if necessary with dry sand and store in closed containers.**Reference to other sections:** For further disposal measures see section 13.

**SAFETY DATA SHEET**

112000017239

according to Regulation (EU) No. 1907/2006

**ARCOL POLYOL 5613**

Version 2.3

Revision Date 07.07.2011

Print Date 10.02.2015

---

**7. HANDLING AND STORAGE****Precautions for safe handling:**

When handling observe the usual precautionary measures for chemicals. Avoid contact with the skin and the eyes.

In all workplaces or parts of the plant where high concentrations of aerosols and/or vapors may be generated (e.g. during pressure release, mold venting or when cleaning mixing heads with an air blast), appropriately located exhaust ventilation must be provided in such a way that the WEL is not exceeded. The air should be drawn away from the personnel handling the product. The efficiency of the exhaust equipment should be periodically checked.

Precautions should generally be taken against electrostatic charges according to the equipment used and the way the product is handled and packaged.

Keep away from foodstuffs, drinks and tobacco. Wash hands before breaks and at the end of workday. Keep working clothes separately. Change contaminated or soaked clothing.

**Conditions for safe storage, including any incompatibilities:**

Keep container tightly closed and dry.

Storage temperature regarding personal safety: max. 50 °C.

Further specific information see our "Technical Information"

---

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Control parameters**

No information on Exposure Limit Values necessary according to EC directive 2006/121/EG

For technical protective measures to limit exposure see also Chapter 7 "Handling and storage".

**Exposure controls****Respiratory protection:**

Unless the product is entirely enclosed, do not handle it until you have studied the respiratory precautions issued by the appropriate authority or accident prevention association. At substantial vapor concentrations respirators must be used. Put on full-mask respirator with filter type ABEK.

**Hand protection:**

Protective gloves are recommended.

Conditionally suitable materials for protective gloves; EN 374:

Nitrile rubber - NBR ( $\geq 0.35$  mm)

Breakthrough time not tested; dispose of immediately after contamination.



## SAFETY DATA SHEET

112000017239

according to Regulation (EU) No. 1907/2006

**ARCOL POLYOL 5613**

Version 2.3

Revision Date 07.07.2011

Print Date 10.02.2015

**Eye protection:**

Wear eye/face protection.

**Skin and body protection:**

Wear suitable protective clothing.

Safety precautions for handling freshly molded polyurethane parts: see section 16

**9. PHYSICAL AND CHEMICAL PROPERTIES****Information on basic physical and chemical properties**

Appearance:	viscous
Colour:	colourless
Odour:	slight inherent odour
Odour Threshold:	not established
pH:	ca. 6,5
Pour point:	ca. -36 °C
Initial boiling point:	> 200 °C
Flash point:	ca. 235 °C
Evaporation rate:	not established
Flammability (solid, gas):	not applicable
Burning number:	not applicable
Vapour pressure:	0,00133 hPa at 25 °C
Vapour density:	not established
Density:	1,02 g/cm <sup>3</sup> at 20 °C
Water solubility:	slightly soluble
Surface tension:	not established
Partition coefficient (n-octanol/water):	not established
Autoignition temperature:	not applicable
Ignition temperature:	not established
Decomposition temperature:	not established
Viscosity, dynamic:	788 mPa.s at 20 °C 575 mPa.s at 25 °C 50 mPa.s at 95 °C
Explosive properties:	not established
Dust explosion class:	not applicable
Oxidising properties:	not established

**10. STABILITY AND REACTIVITY****Chemical stability:** No decomposition below initial boiling point.**Possibility of hazardous reactions:** No hazardous reactions when used as directed.



## SAFETY DATA SHEET

112000017239

according to Regulation (EU) No. 1907/2006

**ARCOL POLYOL 5613**

Version 2.3

Revision Date 07.07.2011

Print Date 10.02.2015

**Hazardous decomposition products:** No hazardous decomposition products when stored and handled correctly.

---

**11. TOXICOLOGICAL INFORMATION**

Toxicological studies on the product are not yet available.

An expected acute oral toxicity as LD50 in rats will be in the order of >2000 mg/kg as derived from products with similar composition.

Irritant/caustic action in analogy to a comparable product.

Skin effect: No skin irritation is expected.

Eye effect: Weak irritation of the eyes possible.

---

**12. ECOLOGICAL INFORMATION**

Ecotoxicological studies of the product are not available.

Do not allow to escape into waterways, wastewater or soil.

---

**13. DISPOSAL CONSIDERATIONS**

Dispose in accordance with applicable international, national and local laws, ordinances and statutes. For disposal within the EC, the appropriate code according to the European Waste Catalogue (EWC) should be used.

**Waste treatment methods**

After containers have been emptied as thoroughly as possible (e.g. by pouring, scraping or draining until "drip-dry"), they can be sent to an appropriate collection point set up within the framework of the existing take-back scheme of the chemical industry. Containers must be recycled in compliance with national legislation and environmental regulations.

None disposal into waste water.

---

**14. TRANSPORT INFORMATION**

<b>ADR/RID</b>	Not dangerous goods
<b>ADN</b>	Not dangerous goods
<b>ADNR (tanker only)</b>	Not dangerous goods



## SAFETY DATA SHEET

112000017239

according to Regulation (EU) No. 1907/2006

## ARCOL POLYOL 5613

Version 2.3

Revision Date 07.07.2011

Print Date 10.02.2015

IATA Not dangerous goods

IMDG Not dangerous goods

Special precautions for user : Not dangerous cargo.  
Keep away from foodstuffs, acids and alkalis.

## Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Product name: Glycerol propoxylated/ethoxylated, Pollution category: Z - Ship type: 3

## 15. REGULATORY INFORMATION

## Safety, health and environmental regulations/legislation specific for the substance or mixture

## Other regulations:

Only China: Compliant with the following local regulations:

Only China: Regulations on the control over safety of hazardous chemicals, Decree No.344

Only China: GB/T 16483-2008 Safety data sheet for Chemical products-Content and order of section

Only China: GB 13690-2009 General rule for classification and hazard communication of chemicals

Only China: GB 20576- GB 20598, Safety rules for classification, precautionary labelling and precautionary statements of chemicals

## 16. OTHER INFORMATION

Safety precautions for handling freshly molded polyurethane parts:

Depending on the production parameters, any uncovered surfaces of polyurethane moldings produced using this raw material may contain traces of substances (e. g. starting and reaction products, catalysts, release agents) with hazardous characteristics. Skin contact with traces of these substances must be avoided. When demolding or otherwise handling freshly molded polyurethane parts, protective textile gloves must be worn as a minimum. Their palm and finger areas should preferably be coated on the outside with nitrilerubber, PVC or polyurethane. Protective gloves should be changed daily. The wearing of protective clothing suited to the conditions normally encountered when handling freshly molded polyurethane parts is recommended.

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

## Further information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the



**SAFETY DATA SHEET**

according to Regulation (EU) No. 1907/2006

**ARCOL POLYOL 5613**

Version 2.3

Revision Date 07.07.2011

Print Date 10.02.2015

112000017239

specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

---